

SEQUENCE LISTING

<110> Briggs, Kristen
Dialynas, Deno
Lucas, John
Scalia, Aaron

<120> XCRF Polynucleotides and Polypeptides and Uses Thereof

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<141> 2003-21-03

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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

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gtg agc tcg ggc ggc ccg gaa ggc cac tat gag atg ctg ggc acc tgc 97
Val Ser Ser Gly Gly Pro Glu Gly His Tyr Glu Met Leu Gly Thr Cys
15          20          25

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cgc atg gtg tgc gac ccc tac ccc gcg cg^g ggc ccc ggc gcc ggc gcg 145
 Arg Met Val Cys Asp Pro Tyr Pro Ala Arg Gly Pro Gly Ala Gly Ala
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cg acc gac ggc ggc gac gcc ctg agc gag cag agc ggc gcg ccc ccg 193
 Arg Thr Asp Gly Gly Asp Ala Leu Ser Glu Gln Ser Gly Ala Pro Pro
 45 50 55 60

cct tcc acg ctg gtg cag ggc ccc cag ggg aag ccg ggc cgcc acc ggc 241
 Pro Ser Thr Leu Val Gln Gly Pro Gln Gly Lys Pro Gly Arg Thr Gly
 65 70 75

aag ccc ggc cct ccg ggg cct ccc ggg gac cca ggt cct ccc ggc cct 289
 Lys Pro Gly Pro Pro Gly Pro Pro Gly Asp Pro Gly Pro Pro Gly Pro
 80 - - - - - 85 - - - - - 90 - - - - -

gtg ggg ccg ccg ggg gag aag ggt gag cca ggc aag ccg ggc cct ccg 337
 Val Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly Lys Pro Gly Pro Pro
 95 100 105

ggg ctg ccg ggc ggc ggg ggc agc ggc gcc atc agc act gcc acc tac 385
 Gly Leu Pro Gly Ala Gly Ser Gly Ala Ile Ser Thr Ala Thr Tyr
 110 115 120

WO 03/082915 PCT/EP03/50081

acc acg gtg ccg cg~~c~~ gtg gcc ttc tac gcc ggc ctc aag aac ccc cac 433
 Thr Thr Val Pro Arg Val Ala Phe Tyr Ala Gly Leu Lys Asn Pro His
 125 130 135 140

gag ggt tac gag gta ctc aag ttt gac gac gtg gtc acc aac cta ggc 481
 Glu Gly Tyr Glu Val Leu Lys Phe Asp Asp Val Val Thr Asn Leu Gly
 145 150 155

aac aac tac gac gcg gcc agc ggc aag ttt acg tgc aac att ccc ggc 529
 Asn Asn Tyr Asp Ala Ala Ser Gly Lys Phe Thr Cys Asn Ile Pro Gly
 160 165 170

acc tac ttt ttc acc tac cat gtc ctc atg cgc ggc ggc gac ggc acc 577
 Thr Tyr Phe Phe Thr Tyr His Val Leu Met Arg Gly Gly Asp Gly Thr
 175 180 185

agt atg tgg gca gac ctc tgc aag aat ggc cag gtg cgg gcc agt gct 625
 Ser Met Trp Ala Asp Leu Cys Lys Asn Gly Gln Val Arg Ala Ser Ala
 190 195 200

att gcc cag gac gcg gac cag aac tac gac tac gcc agc aac agc gtg 673
 Ile Ala Gln Asp Ala Asp Gln Asn Tyr Asp Tyr Ala Ser Asn Ser Val
 205 210 215 220

atc ctg cac ctg gac gcc ggc gac gag gtc ttc atc aag ctg gat gga 721
 Ile Leu His Leu Asp Ala Gly Asp Glu Val Phe Ile Lys Leu Asp Gly
 225 230 235

ggc aaa gca cac ggc ggc aac agc aac aaa tac agc acg ttc tct ggc 769
 Gly Lys Ala His Gly Gly Asn Ser Asn Lys Tyr Ser Thr Phe Ser Gly
 240 245 250

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 Phe Ile Ile Tyr Ser Asp *
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 35 40 45
 Gly Asp Ala Leu Ser Glu Gln Ser Gly Ala Pro Pro Pro Ser Thr Leu

50	55	60	
Val Gln Gly Pro Gln	Gly Lys Pro Gly Arg Thr	Gly Lys Pro Gly Pro	Pro
65	70	75	80
Pro Gly Pro Pro Gly Asp	Pro Gly Pro Pro Gly Pro	Val Gly Pro Pro	
85	90	95	
Gly Glu Lys Gly Glu Pro	Gly Lys Pro Gly Pro Pro	Gly Leu Pro Gly	
100	105	110	
Ala Gly Gly Ser Gly Ala	Ile Ser Thr Ala Thr	Tyr Thr Thr Val	Pro
115	120	125	
Arg Val Ala Phe Tyr Ala	Gly Leu Lys Asn Pro	His Glu Gly Tyr Glu	
130	135	140	
Val Leu Lys Phe Asp Asp	Val Val Thr Asn Leu	Gly Asn Asn Tyr Asp	
145	150	155	160
Ala Ala Ser Gly Lys Phe	Thr Cys Asn Ile Pro	Gly Thr Tyr Phe Phe	
165	170	175	
Thr Tyr His Val Leu Met	Arg Gly Asp Gly Thr	Ser Met Trp Ala	
180	185	190	
Asp Leu Cys Lys Asn Gly	Gln Val Arg Ala Ser	Ala Ile Ala Gln Asp	
195	200	205	
Ala Asp Gln Asn Tyr Asp	Tyr Ala Ser Asn Ser	Val Ile Leu His Leu	
210	215	220	
Asp Ala Gly Asp Glu Val	Phe Ile Lys Leu Asp	Gly Gly Lys Ala His	
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Gly Gly Asn Ser Asn Lys	Tyr Ser Thr Phe Ser	Gly Phe Ile Ile Tyr	
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<220>
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 <222> (1)...(864)

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1		5								10				15	

ccc	ccc	gga	gcg	gct	cac	tac	gag	atg	ctg	ggc	acc	tgc	cgc	atg	atc	96
Pro	Pro	Gly	Ala	Ala	His	Tyr	Glu	Met	Leu	Gly	Thr	Cys	Arg	Met	Ile	
20									25					30		

tgt	gac	cca	tac	agc	gtc	gct	ccc	gca	ggg	gga	ccc	gc	g	ggc	gcc	aag	144
Cys	Asp	Pro	Tyr	Ser	Val	Ala	Pro	Ala	Gly	Gly	Pro	Ala	Gly	Ala	Lys		
35							40							45			

gct	cca	ccg	ccg	gga	ccc	agt	acc	gct	gcc	ctg	gaa	gtt	atg	cag	gac	192
Ala	Pro	Pro	Gly	Pro	Ser	Thr	Ala	Ala	Leu	Glu	Val	Met	Gln	Asp		
50							55				60					

ctc	agc	gcc	aac	ccc	ccg	cct	ccg	ttt	atc	cag	gga	cca	aag	ggt	gat	240
Leu	Ser	Ala	Asn	Pro	Pro	Pro	Pro	Phe	Ile	Gln	Gly	Pro	Lys	Gly	Asp	
65								70		75				80		

ccg ggg cga cca g~~a~~ aag cca ggg cct cgg ggt cct cct~~a~~ gag cca 288
 Pro Gly Arg Pro Gly Lys Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro
 85 90 95

ggg cct cct ggg ccc agg ggt ccc c~~g~~ gga gag aaa gga gac tcg ggg 336
 Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Lys Gly Asp Ser Gly
 100 105 110

agg cca ggg cta ccc gga ctg cag ttg aca acc agc g~~c~~ g~~c~~ gg t ggc 384
 Arg Pro Gly Leu Pro Gly Leu Gln Leu Thr Thr Ser Ala Ala Gly Gly
 115 120 125

gtt gga gtg gtg agt ggc gga acc ggg ggc ggt ggc gac acg gag gga 432
 Val Gly Val Val Ser Gly Gly Thr Gly Gly Gly Asp Thr Glu Gly
 130 135 140

gaa gtg acc agt g~~c~~ ctg agc g~~c~~ g~~c~~ ttc agc ggt ccc aag atc g~~c~~ 480
 Glu Val Thr Ser Ala Leu Ser Ala Ala Phe Ser Gly Pro Lys Ile Ala
 145 150 155 160

ttc tac gtg gga ctc aag agc ccc cac gaa ggc tac gag gtg ctc aag 528
 Phe Tyr Val Gly Leu Lys Ser Pro His Glu Gly Tyr Glu Val Leu Lys
 165 170 175

ttc gac gac gtg gtc acc aat ctt ggc aat cac tac gac ccc ac t aca 576
 Phe Asp Asp Val Val Thr Asn Leu Gly Asn His Tyr Asp Pro Thr Thr
 180 185 190

ggc aag ttc agc tgc cag gtg cgg ggc atc tac ttc ttc acg tac cac 624
 Gly Lys Phe Ser Cys Gln Val Arg Gly Ile Tyr Phe Thr Tyr His
 195 200 205

att ctc atg cgt ggc gac gga acc agc atg tgg g~~c~~ gat ctc tgc 672
 Ile Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Cys
 210 215 220

aag aac ggg cag gtg cga g~~c~~ g~~c~~ at~~a~~ g~~c~~ c~~a~~ g~~c~~ g~~c~~ g~~c~~ c~~a~~ 720
 Lys Asn Gly Gln Val Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln
 225 230 235 240

aat tac gac tac gcc agc aac agc gtg gta ctg cac ctg gat tca ggc 768
 Asn Tyr Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu Asp Ser Gly
 245 250 255

gat gaa gtc tac gtg aag ctg gac g~~g~~ g~~g~~ aag g~~c~~ t~~c~~ g~~g~~ c~~g~~ a~~a~~ 816
 Asp Glu Val Tyr Val Lys Leu Asp Gly Gly Lys Ala His Gly Gly Asn
 260 265 270

aat aac aag tac agc acg ttc tcg ggc ttc ctc ctg tat ccg gat tag 864
 Asn Asn Lys Tyr Ser Thr Phe Ser Gly Phe Leu Leu Tyr Pro Asp *
 275 280 285

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<400WO 03/082915

PCT/EP03/50081

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 20 25 30
 Cys Asp Pro Tyr Ser Val Ala Pro Ala Gly Gly Pro Ala Gly Ala Lys
 35 40 45
 Ala Pro Pro Pro Gly Pro Ser Thr Ala Ala Leu Glu Val Met Gln Asp
 50 55 60
 Leu Ser Ala Asn Pro Pro Pro Phe Ile Gln Gly Pro Lys Gly Asp
 65 70 75 80
 Pro Gly Arg Pro Gly Lys Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro
 85 90 95
 Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Lys Gly Asp Ser Gly
 100 105 110
 Arg Pro Gly Leu Pro Gly Leu Gln Leu Thr Thr Ser Ala Ala Gly Gly
 115 120 125
 Val Gly Val Val Ser Gly Gly Thr Gly Gly Gly Asp Thr Glu Gly
 130 135 140
 Glu Val Thr Ser Ala Leu Ser Ala Ala Phe Ser Gly Pro Lys Ile Ala
 145 150 155 160
 Phe Tyr Val Gly Leu Lys Ser Pro His Glu Gly Tyr Glu Val Leu Lys
 165 170 175
 Phe Asp Asp Val Val Thr Asn Leu Gly Asn His Tyr Asp Pro Thr Thr
 180 185 190
 Gly Lys Phe Ser Cys Gln Val Arg Gly Ile Tyr Phe Phe Thr Tyr His
 195 200 205
 Ile Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Cys
 210 215 220
 Lys Asn Gly Gln Val Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln
 225 230 235 240
 Asn Tyr Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu Asp Ser Gly
 245 250 255
 Asp Glu Val Tyr Val Lys Leu Asp Gly Gly Lys Ala His Gly Gly Asn
 260 265 270
 Asn Asn Lys Tyr Ser Thr Phe Ser Gly Phe Leu Leu Tyr Pro Asp
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cgc ggg cca gcg cac tac gag atg ctg ggt cgc tgc cgc atg gtg tgc 96
 Arg Gly Pro Ala His Tyr Glu Met Leu Gly Arg Cys Arg Met Val Cys
 20 25 30

gac ccg cat ggg ccc cgt ggc cct ggt ccc gac ggc gcg cct gct tcc 144
 Asp Pro His Gly Pro Arg Gly Pro Asp Gly Ala Pro Ala Ser

gtg ccc ccc ttc ccg cca ggc gcc aag gga gag gtg ggc cgg cgc ggg	50	55	60	192
Val Pro Pro Phe Pro Pro Gly Ala Lys Gly Glu Val Gly Arg Arg Gly				
aaa gca ggc ctg cgg ggg ccc cct gga cca cca ggt cca aga ggg ccc	65	70	75	240
Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro				
cca gga gaa ccc ggc agg cca ggc ccc ccg ggc cct ccc ggt cca ggt	85	90	95	288
Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly				
ccg ggc ggg gtg gcg ccc gct gcc ggc tac gtg cct cgc att gct ttc	100	105	110	336
Pro Gly Gly Val Ala Pro Ala Ala Gly Tyr Val Pro Arg Ile Ala Phe				
tac gcg ggc ctg cgg ccc cac gag ggt tac gag gtg ctg cgc ttc	115	120	125	384
Tyr Ala Gly Leu Arg Arg Pro His Glu Gly Tyr Glu Val Leu Arg Phe				
gac gac gtg gtg acc aac gtg ggc aac gcc tac gag gca gcc agc ggc	130	135	140	432
Asp Asp Val Val Thr Asn Val Gly Asn Ala Tyr Glu Ala Ala Ser Gly				
aag ttt act tgc ccc atg cca ggc gtc tac ttc ttc gct tac cac gtg	145	150	155	480
Lys Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe Ala Tyr His Val				
ctc atg cgc ggc ggc gac acc agc atg tgg gcc gac ctc atg aag	165	170	175	528
Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Met Lys				
aac gga cag gtc cgg gcc agc gcc att gct cag gac gcg gac cag aac	180	185	190	576
Asn Gly Gln Val Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln Asn				
tac gac tac gcc agc aac agc gtc att ctg cac ctg gac gtg ggc gac	195	200	205	624
Tyr Asp Tyr Ala Ser Asn Ser Val Ile Leu His Leu Asp Val Gly Asp				
gag gtc ttc atc aag ctg gac ggc ggg aaa gtg cac ggc ggc aac acc	210	215	220	672
Glu Val Phe Ile Lys Leu Asp Gly Gly Lys Val His Gly Gly Asn Thr				
aac aag tac agc acc ttc tcc ggc ttc atc atc tac ccc gac tga	225	230	235	717
Asn Lys Tyr Ser Thr Phe Ser Gly Phe Ile Ile Tyr Pro Asp *				

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 <213> Homo sapiens

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Asp	Pro	His	Gly	Pro	Arg	Gly	Pro	Gly	Pro	Asp	Gly	Ala	Pro	Ala	Ser
35							40						45		
Val	Pro	Pro	Phe	Pro	Pro	Gly	Ala	Lys	Gly	Glu	Val	Gly	Arg	Arg	Gly
50						55				60					
Lys	Ala	Gly	Leu	Arg	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Arg	Gly	Pro
65						70			75				80		
Pro	Gly	Glu	Pro	Gly	Arg	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Gly
						85			90				95		
Pro	Gly	Gly	Val	Ala	Pro	Ala	Ala	Gly	Tyr	Val	Pro	Arg	Ile	Ala	Phe
						100			105				110		
Tyr	Ala	Gly	Leu	Arg	Arg	Pro	His	Glu	Gly	Tyr	Glu	Val	Leu	Arg	Phe
						115			120				125		
Asp	Asp	Val	Val	Thr	Asn	Val	Gly	Asn	Ala	Tyr	Glu	Ala	Ala	Ser	Gly
						130			135				140		
Lys	Phe	Thr	Cys	Pro	Met	Pro	Gly	Val	Tyr	Phe	Phe	Ala	Tyr	His	Val
						145			150				155		160
Leu	Met	Arg	Gly	Gly	Asp	Gly	Thr	Ser	Met	Trp	Ala	Asp	Leu	Met	Lys
						165			170				175		
Asn	Gly	Gln	Val	Arg	Ala	Ser	Ala	Ile	Ala	Gln	Asp	Ala	Asp	Gln	Asn
						180			185				190		
Tyr	Asp	Tyr	Ala	Ser	Asn	Ser	Val	Ile	Leu	His	Leu	Asp	Val	Gly	Asp
						195			200				205		
Glu	Val	Phe	Ile	Lys	Leu	Asp	Gly	Gly	Lys	Val	His	Gly	Gly	Asn	Thr
						210			215				220		
Asn	Lys	Tyr	Ser	Thr	Phe	Ser	Gly	Phe	Ile	Ile	Tyr	Pro	Asp		
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<210> 7

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<220>

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<222> (1)...(864)

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1						5				10			15		

ccc	cga	ggc	gcc	gcf	cac	tat	gag	atg	atg	ggc	acc	tgc	cgc	atg	atc
Pro	Arg	Gly	Ala	Ala	His	Tyr	Glu	Met	Met	Gly	Thr	Cys	Arg	Met	Ile
															30

tgc	gac	cct	tac	act	gcc	gcf	ccc	ggc	ggg	gag	ccc	ccg	ggt	gca	aag
Cys	Asp	Pro	Tyr	Thr	Ala	Ala	Pro	Gly	Gly	Glu	Pro	Pro	Gly	Ala	Lys
															35

gcf	cag	cca	ccc	gga	ccc	agc	acc	gcc	gcc	ctg	gaa	gtc	atg	cag	gac
Ala	Gln	Pro	Pro	Gly	Pro	Ser	Thr	Ala	Ala	Leu	Glu	Val	Met	Gln	Asp
										50		55		60	

ctc	agc	gcc	aac	cct	cct	cct	ttc	atc	cag	gga	ccc	aag	ggc	gac
Leu	Ser	Ala	Asn	Pro	Pro	Pro	Phe	Ile	Gln	Gly	Pro	Lys	Gly	Asp

ccg	ggg	cga	ccg	ggc	aag	cca	ggg	ccg	ccg	ggg	ccc	cct	gga	gag	ccg	288	
Pro	Gly	Arg	Pro	Gly	Lys	Pro	Gly	Pro	Arg	Gly	Pro	Pro	Gly	Glu	Pro		
			85						90					95			
ggc	ccg	cct	gga	ccc	agg	ggc	cct	ccg	gga	gag	aag	ggc	gac	tcg	ggg	336	
Gly	Pro	Pro	Gly	Pro	Arg	Gly	Pro	Pro	Gly	Glu	Lys	Gly	Asp	Ser	Gly		
			100						105					110			
ccg	ccc	ggg	ctg	cca	ggg	ctg	caa	ctg	acg	gca	ggc	acg	gcc	agc	ggc	384	
Arg	Pro	Gly	Leu	Pro	Gly	Leu	Gln	Leu	Thr	Ala	Gly	Thr	Ala	Ser	Gly		
			115						120					125			
gtc	ggg	gtg	gtg	ggc	ggc	ggg	gcc	ggg	gta	ggt	ggc	gat	tcc	gag	ggt	432	
Val	Gly	Val	Val	Gly	Gly	Ala	Gly	Val	Gly	Gly	Asp	Ser	Glu	Gly			
			130					135					140				
gaa	gtg	acc	agt	gca	ctg	agc	gcc	acc	tcc	agc	ggc	ccc	aag	atc	gcc	480	
Glu	Val	Thr	Ser	Ala	Leu	Ser	Ala	Thr	Phe	Ser	Gly	Pro	Lys	Ile	Ala		
			145					150				155		160			
ttc	tat	gtg	ggt	ctc	aag	agc	ccc	cac	gaa	ggc	tat	gag	gtg	ctg	aag	528	
Phe	Tyr	Val	Gly	Leu	Lys	Ser	Pro	His	Glu	Gly	Tyr	Glu	Val	Leu	Lys		
			165					170					175				
ttc	gat	gac	gtg	gtc	acc	aac	ctc	ggc	aat	cac	tat	gac	ccc	acc	acg	576	
Phe	Asp	Asp	Val	Val	Thr	Asn	Leu	Gly	Asn	His	Tyr	Asp	Pro	Thr	Thr		
			180					185					190				
ggc	aag	ttc	agc	tgc	cag	gta	cgc	ggc	atc	tac	tcc	ttc	acc	tac	cac	624	
Gly	Lys	Phe	Ser	Cys	Gln	Val	Arg	Gly	Ile	Tyr	Phe	Phe	Thr	Tyr	His		
			195					200					205				
atc	ctc	atg	cgc	ggc	gac	ggc	acc	agc	atg	tgg	gca	gac	ctc	tgc	672		
Ile	Leu	Met	Arg	Gly	Gly	Asp	Gly	Thr	Ser	Met	Trp	Ala	Asp	Leu	Cys		
			210					215					220				
aag	aac	ggg	cag	gtc	cg	gcc	agc	gcc	att	gca	cag	gac	gcc	gac	cag	720	
Lys	Asn	Gly	Gln	Val	Arg	Ala	Ser	Ala	Ile	Ala	Gln	Asp	Ala	Asp	Gln		
			225					230					235		240		
aac	ta	gac	ta	g	cc	ag	ta	g	tt	g	tc	tt	g	at	gg	768	
Asn	Tyr	Asp	Tyr	Ala	Ser	Asn	Ser	Val	Val	Leu	His	Leu	Asp	Ser	Gly		
			245					250					255				
gac	gaa	gtg	ta	gt	a	g	ct	g	tt	g	tc	cc	g	at	gg	816	
Asp	Glu	Val	Tyr	Val	Lys	Leu	Asp	Gly	Gly	Lys	Ala	His	Gly	Gly	Asn		
			260					265					270				
aat	aa	aa	ta	ag	ac	tt	tc	gg	tt	ct	ct	ta	cc	g	at	gg	864
Asn	Asn	Lys	Tyr	Ser	Thr	Phe	Ser	Gly	Phe	Leu	Leu	Tyr	Pro	Asp	*		
			275					280					285				

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<212> PRT

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20 25 30
Cys Asp Pro Tyr Thr Ala Ala Pro Gly Gly Glu Pro Pro Gly Ala Lys
35 40 45
Ala Gln Pro Pro Gly Pro Ser Thr Ala Ala Leu Glu Val Met Gln Asp
50 55 60
Leu Ser Ala Asn Pro Pro Pro Phe Ile Gln Gly Pro Lys Gly Asp
65 70 75 80
Pro Gly Arg Pro Gly Lys Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro
85 90 95
Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Lys Gly Asp Ser Gly
100 105 110
Arg Pro Gly Leu Pro Gly Leu Gln Leu Thr Ala Gly Thr Ala Ser Gly
115 120 125
Val Gly Val Val Gly Gly Ala Gly Val Gly Gly Asp Ser Glu Gly
130 135 140
Glu Val Thr Ser Ala Leu Ser Ala Thr Phe Ser Gly Pro Lys Ile Ala
145 150 155 160
Phe Tyr Val Gly Leu Lys Ser Pro His Glu Gly Tyr Glu Val Leu Lys
165 170 175
Phe Asp Asp Val Val Thr Asn Leu Gly Asn His Tyr Asp Pro Thr Thr
180 185 190
Gly Lys Phe Ser Cys Gln Val Arg Gly Ile Tyr Phe Phe Thr Tyr His
195 200 205
Ile Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Cys
210 215 220
Lys Asn Gly Gln Val Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln
225 230 235 240
Asn Tyr Asp Tyr Ala Ser Asn Ser Val Val His Leu Asp Ser Gly
245 250 255
Asp Glu Val Tyr Val Lys Leu Asp Gly Gly Lys Ala His Gly Gly Asn
260 265 270
Asn Asn Lys Tyr Ser Thr Phe Ser Gly Phe Leu Leu Tyr Pro Asp
275 280 285